

SEQUENCE LISTING



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<110> National Research Council of Canada

<120> PROTEIN CONTAINING A BURP DOMAIN

<130> PAT 753W-2

<140> US 10/522,894

<141> 2003-08-01

<150> US 60/400,836

<151> 2002-08-02

<160> 43

<170> PatentIn version 3.1

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tgtgttcata	gttttcttcg	ggagatcccc	tccatttctg	gaaagatcgg	tccttagggg	1500
tctaccctac	attagctcag	gtttccctta	cacatcttcg	tttgtgagct	gttgcgcttc	1560
tacggctggg	agctacagca	catctcattc	ccaccaaacg	gggttcttca	cattgtaaac	1620
ttcatcgtat	tttgogaatg	ctttctgggg	acagccactc	actttgagtt	gttccgatac	1680
ttcttcgggg	tctgcgttca	gaccaacggg	gacacgtctc	gcaaccttgg	aggagccatt	1740
cctgcgacac	accaaattt	tcgccacgga	cccccggaag	atccgcaaga	aaaaaaaaagc	1800
tgcaacggcg	tggacggcga	gcaccgcacc	gcacacgaac	gcgaacgcga	cgctgccgcg	1860
ccacacaaca	cgccattcgc	gcgcggatcg	tcggatgtca	cgccccagat	aatattctcc	1920
ggtgccgcac	gtaccatgcg	atcgcacagc	tcacatcgag	agcttttctg	tttggtgtcg	1980
ccgtcaatga	aacaccttcc	cgtcaagccg	acgacgccta	taagtaoctc	gcctgatcgc	2040
attatcactc	ccaagtacta	caacctctcg	acctctcacc	tagcgcacat	ccatg	2095

<210> 35  
 <211> 246  
 <212> DNA  
 <213> Triticum aestivum

<400> 35

atggcgcgct	tcctcgctgc	cctcctcgct	gccaccctgg	tcgcgggttca	ggctggaggg	60
------------	------------	------------	------------	-------------	------------	----

cagctgggccc	acgcagcgccc	ggcgacggcg	gaggtgttct	ggcgcgccgt	gctgccgcac	120
tcgccattgc	ccgacgccgt	tctccgcctc	ctcaaacaac	ctgcagcagg	tggtgaactg	180
cacacagaag	ccaccagctt	cgtaagagac	cccaggagaca	ggccccccct	cgactaccgt	240
gattac						246

<210> 36  
 <211> 441  
 <212> DNA  
 <213> Triticum aestivum

<400> 36

atggcgcgct	tcctcgtcgc	cctcctcgct	gccaccctgg	tcgcggtaat	ggccgaagaa	60
gccactgagc	aacgcctgca	tcttctttat	tttggcaaac	tggtgctaac	ggccaatact	120
gccgcttgcg	ttacgtctca	ggttcaggct	ggagggcagc	tgggccacgc	agcgccggcg	180
acggcgagg	tggtctggcg	cgccgtgctg	ccgcactcgc	cattgcccga	cgccgttctc	240
cgctcctca	aacaacctgc	agcaggctctg	tcttgcatgt	tcctcgtcgc	cctccgtaa	300
ctgtcttctt	ctctcgaggt	tgattgatca	ccaaacacaa	aaatgcatgc	acgcgtacgc	360
gtagggtgtg	aactgcacac	agaagccacc	agcttcgtaa	gagaccccga	ggacaggccc	420
cccttcgact	accgtgatta	c				441

<210> 37  
 <211> 1301  
 <212> DNA  
 <213> Oryza sativa

<400> 37

gtcgcgctcg	tctccggcga	gaaatcggct	gcgccccgtc	tctctctctc	tcgaacgctt	60
ccatggcgcg	cttccctcctc	ctcctcgtcg	ccgtcgccgc	tgccgcgcgc	gtgctttcgc	120
tgggcgacgc	ggcgccgctcg	acggccgagg	tggtctggcg	cgccgtgctg	ccggaatccc	180
cgttgccgga	cgcttctcctc	cgctcctcc	gccctgacac	cagcttcgctc	gtcggcaaaag	240
cggaggcggc	cggtggcgcg	gcgcggaccg	gattccccct	cgattacact	gactacaggg	300
gatctgattc	tccgacgacg	gcgagtggtt	tggacctcgc	cggtgacttc	ggcgagcccg	360
cgcttttcgg	ctacgactac	agtgcacagg	gcgaaggcgg	cggcggcggc	gccgccgccg	420
ccgcggggaga	gcaggttctt	gccgtcgacg	cggtcttcaa	ctacgacaaa	tacgtcggcg	480
cgaggaagct	ccgcggcggc	agcagcaccg	ccggcgagga	gaatgatgac	gagcctttcg	540
ggtacgacta	caaggcgccg	agcagcggca	gcggcaccgc	ggcgtcgacg	acggcgcgag	600
gcgtcggcac	gggcggccacg	acgacgggtg	tcttccacga	ggaggcggtg	cgcgtcggcg	660
agaggctccc	gttctacttc	ccggcggcga	cgacgtcggc	gctgggcttc	ctgccgcgcc	720
gcgtcgcgga	ctccatccccg	ttcacggcgg	ccgcgtgcc	ggccgtcctc	gcgtgtttcg	780
gcgtcgcgcc	ggacaccgcc	gaggcgcccg	gcatgaggga	gacgctgcgc	acgtgcgagt	840
ggccgaccct	cgccggcgag	tccaagttct	gcgccacgtc	gctggaggcc	ctggtggagg	900
gcgccatggc	ggcgctcggg	acacgcgaca	tcgccgcgct	ggcgtcgacg	ctgccccgcg	960
gcggcgcgcc	gctgcaggcg	tacgccgtcc	gcgccgtgct	ccccgtcgag	ggcgccggct	1020
tcgtggcggtg	ccacgaccag	gcgtacccgt	acaccgtgta	ccgctgccac	accaccggcc	1080
cggccagagc	ttacatgggtg	gagatggaag	gcgacggcgg	cgccgatggc	ggcgaggcgg	1140
tgaccgtggc	caccgtgtgc	cacaccaaca	cgtcgcgggtg	gaaccgggag	cacgtctcgt	1200
tcaagctcct	cggcaccaag	cccggcggtc	cgccgggtgtg	ccacctcatg	ccgtacgggc	1260
acatcgtctg	ggccaagaac	gtgaagagct	cgacggcgta	g		1301

<210> 38

<211> 1479  
 <212> DNA  
 <213> Oryza sativa

<400> 38

gtcgcagtcg	tctccggcga	gaaatcggct	gcgccccgtc	tctctctctc	tccaacgctt	60
ccatggcgcg	cttcctctc	ctcctcgtcg	ccgtcgccgc	tgccgcgcgc	gtgctttcgg	120
tacactcatg	atgccgctac	tcagctgagc	catgcaccgt	tgcaaccgta	tactaacgat	180
cgctcgatcg	accgacgatg	tgtgttcttc	agcagctggg	cgacgcggcg	ccgtcgacgg	240
ccgaggtgtt	ctggcgcgcc	gtgtcgccgg	aatccccgtt	gccggacgcc	ttcctccgcc	300
tcctccgccc	tggtcggtgt	ccttccttcc	tccttcgcgc	gccgcgcgc	gccattactc	360
tcctcgaggt	ttgatttgtt	tgtggacgtt	gcagacacca	gcttcgtcgt	cggcaaagcg	420
gaggcgcccg	gtggcgcgcc	gcggaccgga	ttcccccttc	attacactga	ctacagggga	480
tctgattctc	cgacgacggc	gagtggtttg	gacctcgccg	gtgacttcgg	cgagccggcg	540
cctttcggct	acgactacag	tgcacagggc	gaaggcggcg	gcggcgggcg	cgccgcgcgc	600
gcgggagagc	aggttcttgc	cgtcgacgcg	ggcttcaact	acgacaaata	cgtcggcgcg	660
aggaagctcc	gcggcgccag	cagcaccgcc	ggcggagaga	atgatgacga	gcctttcggg	720
tacgactaca	aggcgccgag	cagcggcagc	ggcaccgcgg	cgtcgacgac	ggcgcgaggc	780
gtcggcacgg	gcgccacgac	gacggtgttc	ttccacgagg	aggcgggtgc	cgtcggcgag	840
aggctcccgt	tctacttccc	ggcggcgacg	acgtcggcgc	tgggcttcc	gccgcgccgc	900
gtcgcggact	ccatcccgtt	cacggcgccc	gcgtgcgcgg	ccgtcctcgc	gctgttcggc	960
ctcgcgccgg	acaccgcga	ggcggccggc	atgagggaga	cgctgcgcac	gtgcgagtgg	1020
ccgaccctcg	ccggcgagtc	caagtctcgc	gccacgtcgc	tggaggccct	ggtagggggc	1080
gccatggcgg	cgctcgggac	acgcgacatc	gccgcgctgg	cgtcgacgct	gccccgcggc	1140
ggcgcgccgc	tgaggcgta	cgccgtccgc	gccgtgctcc	ccgtcgaggg	cgccggcttc	1200
gtggcggtgc	acgaccaggc	gtacccgtac	accgtgtacc	gctgccacac	caccggcccc	1260
gccagagctt	acatggtgga	gatggaaggc	gacggcgggc	gcgatggcgg	cgaggcggtg	1320
accgtggcca	ccgtgtgcca	caccaacacg	tcgcggtgga	acccggagca	cgtctcgttc	1380
aagctcctcg	gcaccaagcc	cggcggctcg	ccggtgtgcc	acctcatgcc	gtacggggcac	1440
atcgtctggg	ccaagaacgt	gaagagctcg	acggcgtag			1479

<210> 39  
 <211> 1461  
 <212> DNA  
 <213> Oryza sativa

<400> 39

cgaaggcaaa	ctctggtaag	gattcccatt	acacgaatca	atttaataag	tctaaaacga	60
acactatgtt	atgagaaaca	cctcacatcc	gtccataacc	gtgggcatga	ctattttaaaa	120
agtttaacta	aactctacaa	aagttgcacg	ctttaccac	acgtcatgaa	cgtttcacat	180
taccgaatac	atgtggatcg	gacatggccg	acaaaggaga	gttcaataca	aggcttttcc	240
ataaccaatc	cataaatatc	ctatgtccca	cgggtgggtg	gaatctctcc	accaaacatc	300
aagccaggat	caggtcctca	tctacccatg	ccccactcca	tggactccga	cacatcccca	360
ctgcaggaga	ttgccatata	cgccaccata	ccagtgtccc	tcaaccgcta	acatgttgga	420
caccaaattc	tatatactta	tatagttcat	ctccactaag	tgtagttaat	tacatttctc	480
tcttctctca	ttaagccaca	tcacctcaat	tatttttagc	cttttagatga	tagatctatg	540
gtccaaattg	tcttttcttt	cttctctctt	aaaaacatgc	aatctttaat	acttttaggc	600
tcaaaattgt	atcaaattgt	tttagttttg	tacatattat	gcaacttaat	ttttcgccgc	660
aacgcggagg	ggtatttcat	ctagtattat	ttaagagcta	tacacactgc	tataggggaa	720
aaaaaagata	ggtttggccc	cctggtcagt	cctgttgac	ggctatatgt	tgaagggaaa	780
aagccagtac	gttttgtagg	ttgttttttt	tttagaattg	ctaaaaagtt	gtggcatgtt	840
ttttaggtaa	aagccttta	atataagtta	cattgttaat	acagtgtaat	tccgctgtaa	900

ctatatattgta	atctctatat	aagtttagata	taaaattaca	tatatattat	tttaataactt	960
atttataagt	tagtatatta	tagttataat	ggaattaatt	ataattatag	tatagttaga	1020
tttgaaagtt	tttcctttaa	gaaatttcgc	aacagtttat	tagatatagt	ccctaaacga	1080
aaatgtcagg	tggatgcatg	attcagtggtg	acgctcgggc	ggatcacggc	tgcgtcacga	1140
aaattccccc	catgcaaccc	gcgtccggcc	gtccttcgtg	ccaacaggca	acagcgcggc	1200
gccggcgaac	gtcacgcca	agattatatt	ccccctctcg	cgctcgcgcg	cgccgcgacg	1260
tcgtcggagc	caacattatt	tttctgtttc	ctgtcaccgt	cgccgttgat	ctcaagcgag	1320
atttgaggtt	tggccacgac	gacgcctgcc	tataaatacc	aggtggtggt	caccgcccgg	1380
cggcgtcgat	cgatccgtcg	cagtcgtctc	cggcgagaaa	tcggctgcgc	cccgtctctc	1440
tctctctcga	acgcttccat	g				1461

<210> 40  
 <211> 389  
 <212> PRT  
 <213> Triticum aestivum

<400> 40

Met	Ala	Arg	Phe	Leu	Val	Ala	Leu	Leu	Ala	Thr	Thr	Leu	Val	Ala	Val
1				5					10					15	
Gln	Ala	Gly	Gly	Gln	Leu	Gly	His	Ala	Ala	Pro	Ala	Thr	Ala	Glu	Val
			20					25					30		
Phe	Trp	Arg	Ala	Val	Leu	Pro	His	Ser	Pro	Leu	Pro	Asp	Ala	Val	Leu
		35					40					45			
Arg	Leu	Leu	Lys	Gln	Pro	Ala	Ala	Gly	Val	Glu	Leu	Leu	Thr	Glu	Ala
	50					55				60					
Thr	Ser	Phe	Val	Arg	Asp	Ala	Glu	Asp	Arg	Pro	Pro	Phe	Asp	Tyr	Arg
65				70				75						80	
Asp	Tyr	Ser	Arg	Ser	Pro	Pro	Asp	Asp	Glu	Pro	Ser	Lys	Ser	Thr	Gly
			85					90						95	
Ala	Ala	Ser	Gly	Ala	Arg	Asp	Phe	Asp	Tyr	Asp	Asp	Tyr	Ser	Gly	Gly
		100					105					110			
Asp	Lys	Leu	Arg	Gly	Ala	Ala	Ser	Gly	Ala	Arg	Asp	Phe	Asp	Tyr	Asp
	115					120					125				
Asp	Tyr	Ser	Gly	Ala	Asp	Lys	Leu	Arg	Gly	Ala	Thr	Asp	Glu	Tyr	Lys
	130					135					140				
Ala	Pro	Ser	Ser	Ser	Leu	Ala	Gly	Asn	Gly	Ala	Ser	Met	Ala	Arg	Gly
145				150				155						160	
Gly	Lys	Ala	Glu	Thr	Thr	Thr	Val	Phe	Phe	His	Glu	Glu	Ala	Val	Arg
		165						170						175	
Val	Gly	Lys	Arg	Leu	Pro	Phe	Arg	Phe	Pro	Pro	Ala	Thr	Pro	Ala	Ala
		180					185						190		
Leu	Gly	Phe	Leu	Pro	Arg	Gln	Val	Ala	Asp	Ser	Val	Pro	Phe	Thr	Thr
	195					200						205			
Ala	Ala	Leu	Pro	Gly	Val	Leu	Ala	Thr	Phe	Gly	Val	Ala	Ser	Asp	Ser
	210					215					220				
Ala	Thr	Val	Ala	Ser	Met	Glu	Ala	Thr	Leu	Arg	Ala	Cys	Glu	Ser	Pro
225				230					235					240	
Thr	Ile	Ala	Gly	Glu	Ser	Lys	Phe	Cys	Ala	Thr	Ser	Leu	Glu	Ala	Leu
		245						250						255	
Val	Glu	Arg	Ala	Met	Glu	Val	Leu	Gly	Thr	Arg	Asp	Ile	Arg	Pro	Val
	260							265					270		
Thr	Ser	Thr	Leu	Pro	Arg	Ala	Gly	Ala	Pro	Leu	Gln	Thr	Tyr	Thr	Val
	275						280						285		

Arg Ser Val Arg Pro Val Glu Gly Gly Pro Val Phe Val Ala Cys His  
 290 295 300  
 Asp Glu Ala Tyr Pro Tyr Thr Val Tyr Arg Cys His Thr Thr Gly Pro  
 305 310 315 320  
 Ser Arg Ala Tyr Met Val Asp Met Glu Gly Ala Arg Gly Gly Asp Ala  
 325 330 335  
 Val Thr Ile Ala Thr Val Cys His Thr Asp Thr Ser Leu Trp Asn Pro  
 340 345 350  
 Glu His Val Ser Phe Lys Leu Leu Gly Thr Lys Pro Gly Gly Thr Pro  
 355 360 365  
 Val Cys His Leu Met Pro Tyr Gly His Ile Ile Trp Ala Lys Asn Val  
 370 375 380  
 Asn Arg Ser Pro Ala  
 385

<210> 41  
 <211> 362  
 <212> PRT  
 <213> Triticum aestivum

<400> 41

Met Ala Arg Phe Leu Val Ala Leu Leu Ala Ala Thr Leu Val Ala Val  
 1 5 10 15  
 Gln Ala Gly Gly Gln Leu Gly His Ala Ala Pro Ala Thr Gly Glu Val  
 20 25 30  
 Phe Trp Arg Ala Val Leu Pro His Ser Pro Leu Pro Asp Ala Val Leu  
 35 40 45  
 Arg Leu Leu Lys Gln Pro Ala Ala Glu Ser Thr Ser Phe Val Arg Asp  
 50 55 60  
 Pro Glu Asp Arg Pro Pro Phe Asp Tyr Arg Asp Tyr Ser Arg Ser Ser  
 65 70 75 80  
 Ser Asp Asp Glu Pro Ser Lys Ser Thr Val Ala Ala Ser Gly Ala Gly  
 85 90 95  
 Gly Phe Asp Tyr Asp Asn Tyr Ser Gly Ala Asp Glu Arg Arg Gly Ala  
 100 105 110  
 Thr Asp Glu Tyr Lys Ala Pro Ser Ser Leu Ala Gly Ser Gly Ala  
 115 120 125  
 Tyr Met Ala Arg Gly Gly Lys Ala Glu Thr Thr Thr Val Phe Phe His  
 130 135 140  
 Glu Glu Ala Val Arg Val Gly Arg Arg Leu Pro Phe His Phe Pro Pro  
 145 150 155 160  
 Ala Thr Pro Ala Ala Leu Gly Phe Leu Pro Arg Gln Val Ala Asp Ser  
 165 170 175  
 Val Pro Phe Thr Thr Ala Ala Leu Pro Gly Ile Leu Ala Thr Phe Gly  
 180 185 190  
 Ile Ala Ser Asp Ser Thr Thr Val Pro Ser Met Glu Ala Thr Leu Arg  
 195 200 205  
 Ala Cys Glu Ser Pro Thr Ile Ala Gly Glu Ser Lys Phe Cys Ala Thr  
 210 215 220  
 Ser Leu Glu Ala Leu Val Glu Arg Ala Met Gly Val Leu Gly Thr Arg  
 225 230 235 240  
 Asp Ile Arg Pro Val Thr Ser Thr Leu Pro Arg Ala Gly Ala Pro Leu  
 245 250 255

Gln	Thr	Tyr	Thr	Val	Val	Ala	Val	Gln	Pro	Val	Glu	Gly	Gly	Pro	Val
			260					265					270		
Phe	Val	Ala	Cys	His	Asp	Glu	Ala	Tyr	Pro	Tyr	Thr	Val	Tyr	Arg	Cys
		275					280					285			
His	Thr	Thr	Gly	Pro	Ser	Arg	Ala	Tyr	Thr	Val	Asp	Met	Glu	Gly	Ala
	290					295					300				
Arg	Gly	Ala	Asp	Ala	Val	Thr	Ile	Ala	Ala	Val	Cys	His	Thr	Asp	Thr
305					310					315					320
Ser	Leu	Trp	Asn	Pro	Glu	His	Val	Ser	Phe	Lys	Leu	Leu	Gly	Thr	Lys
			325						330					335	
Pro	Gly	Gly	Thr	Pro	Val	Cys	His	Leu	Met	Pro	Tyr	Gly	His	Ile	Ile
			340					345					350		
Trp	Ala	Lys	Asn	Val	Lys	Arg	Ser	Pro	Ala						
		355					360								

<210> 42  
 <211> 82  
 <212> PRT  
 <213> Triticum aestivum

<400> 42

Met	Ala	Arg	Phe	Leu	Val	Ala	Leu	Leu	Ala	Ala	Thr	Leu	Val	Ala	Val
1				5					10					15	
Gln	Ala	Gly	Gly	Gln	Leu	Gly	His	Ala	Ala	Pro	Ala	Thr	Ala	Glu	Val
			20					25					30		
Phe	Trp	Arg	Ala	Val	Leu	Pro	His	Ser	Pro	Leu	Pro	Asp	Ala	Val	Leu
		35					40					45			
Arg	Leu	Leu	Lys	Gln	Pro	Ala	Ala	Gly	Val	Glu	Leu	His	Thr	Glu	Ala
	50					55					60				
Thr	Ser	Phe	Val	Arg	Asp	Pro	Glu	Asp	Arg	Pro	Pro	Phe	Asp	Tyr	Arg
65					70				75						80
Asp	Tyr														

<210> 43  
 <211> 412  
 <212> PRT  
 <213> Oryza sativa

<400> 43

Met	Ala	Arg	Phe	Leu	Leu	Leu	Leu	Val	Ala	Val	Ala	Ala	Ala	Ala	Ala
1				5					10					15	
Val	Leu	Ser	Leu	Gly	Asp	Ala	Ala	Pro	Ser	Thr	Ala	Glu	Val	Phe	Trp
			20					25					30		
Arg	Ala	Val	Leu	Pro	Glu	Ser	Pro	Leu	Pro	Asp	Ala	Phe	Leu	Arg	Leu
		35					40					45			
Leu	Arg	Pro	Asp	Thr	Ser	Phe	Val	Val	Gly	Lys	Ala	Glu	Ala	Ala	Gly
	50					55					60				
Gly	Ala	Ala	Arg	Thr	Gly	Phe	Pro	Phe	Asp	Tyr	Thr	Asp	Tyr	Arg	Gly
65					70				75						80



Ser	Asp	Ser	Pro	Thr	Thr	Ala	Ser	Gly	Leu	Asp	Leu	Ala	Gly	Asp	Phe	85	90	95
Gly	Glu	Pro	Ala	Pro	Phe	Gly	Tyr	Asp	Tyr	Ser	Ala	Gln	Gly	Glu	Gly	100	105	110
Gly	Gly	Gly	Gly	Ala	Ala	Ala	Ala	Ala	Gly	Glu	Gln	Val	Leu	Ala	Val	115	120	125
Asp	Ala	Gly	Phe	Asn	Tyr	Asp	Lys	Tyr	Val	Gly	Ala	Arg	Lys	Leu	Arg	130	135	140
Gly	Gly	Ser	Ser	Thr	Ala	Gly	Gly	Glu	Asn	Asp	Asp	Glu	Pro	Phe	Gly	145	150	155
Tyr	Asp	Tyr	Lys	Ala	Pro	Ser	Ser	Gly	Ser	Gly	Thr	Ala	Ala	Ser	Thr	165	170	175
Thr	Ala	Arg	Gly	Val	Gly	Thr	Gly	Ala	Thr	Thr	Thr	Val	Phe	Phe	His	180	185	190
Glu	Glu	Ala	Val	Arg	Val	Gly	Glu	Arg	Leu	Pro	Phe	Tyr	Phe	Pro	Ala	195	200	205
Ala	Thr	Thr	Ser	Ala	Leu	Gly	Phe	Leu	Pro	Arg	Arg	Val	Ala	Asp	Ser	210	215	220
Ile	Pro	Phe	Thr	Ala	Ala	Ala	Leu	Pro	Ala	Val	Leu	Ala	Leu	Phe	Gly	225	230	235
Val	Ala	Pro	Asp	Thr	Ala	Glu	Ala	Ala	Gly	Met	Arg	Glu	Thr	Leu	Arg	245	250	255
Thr	Cys	Glu	Trp	Pro	Thr	Leu	Ala	Gly	Glu	Ser	Lys	Phe	Cys	Ala	Thr	260	265	270
Ser	Leu	Glu	Ala	Leu	Val	Glu	Gly	Ala	Met	Ala	Ala	Leu	Gly	Thr	Arg	275	280	285
Asp	Ile	Ala	Ala	Leu	Ala	Ser	Thr	Leu	Pro	Arg	Gly	Gly	Ala	Pro	Leu	290	295	300
Gln	Ala	Tyr	Ala	Val	Arg	Ala	Val	Leu	Pro	Val	Glu	Gly	Ala	Gly	Phe	305	310	315
Val	Ala	Cys	His	Asp	Gln	Ala	Tyr	Pro	Tyr	Thr	Val	Tyr	Arg	Cys	His	325	330	335
Thr	Thr	Gly	Pro	Ala	Arg	Ala	Tyr	Met	Val	Glu	Met	Glu	Gly	Asp	Gly	340	345	350
Gly	Gly	Asp	Gly	Gly	Glu	Ala	Val	Thr	Val	Ala	Thr	Val	Cys	His	Thr	355	360	365
Asn	Thr	Ser	Arg	Trp	Asn	Pro	Glu	His	Val	Ser	Phe	Lys	Leu	Leu	Gly	370	375	380
Thr	Lys	Pro	Gly	Gly	Ser	Pro	Val	Cys	His	Leu	Met	Pro	Tyr	Gly	His	385	390	395
Ile	Val	Trp	Ala	Lys	Asn	Val	Lys	Ser	Ser	Thr	Ala					405	410	